

SALES DBMS

TEAM MEMBERS

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INTRODUCTION

PROJECT: Sales Database System

GOAL: Build a reliable database system for online stores.







FEATURES: Tracks the entire sales process—including customers, inventory, orders, and finances.

DESIGN: Connects 10 key data categories (like Users and Products) to ensure smooth operations.




FOUNDATION: Built to be accurate, organized, and scalable for real-world use.

GITHUB LINK: <https://github.com/sinemkcr10/sales-dbms-sql-database>










CREATING TABLES:

| Customer | |
|--|---------|
|   # customer_id | int8 |
|  fname | varchar |
|  lname | varchar |
|   e_mail | varchar |







```
CREATE TABLE Customer
(customer_id INT GENERATED BY
DEFAULT AS IDENTITY PRIMARY KEY,
fname VARCHAR(255),
lname VARCHAR(255),
e_mail VARCHAR(255)
);
```

| category | |
|---|---------|
|   # category_id | int8 |
|  name | varchar |









```
CREATE TABLE category
(category_id INT GENERATED
BY DEFAULT AS IDENTITY PRIMARY
KEY,
name VARCHAR(255) );
```

| Seller | |
|---|---------|
|   # seller_id | int8 |
|   company_name | varchar |
|   e_mail | varchar |
|   phone | varchar |
|  address | varchar |






```
CREATE TABLE Seller
( seller_id INT GENERATED BY
DEFAULT AS IDENTITY PRIMARY
KEY,
company_name VARCHAR(255),
e_mail VARCHAR(255),
phone VARCHAR(255),
address VARCHAR(255) );
```

| address | |
|--|---------|
|   # address_id | int8 |
|  customer_id | int8 |
|  street | varchar |
|  city | varchar |
|  post_code | int8 |








```
CREATE TABLE address
(address_id INT GENERATED BY
DEFAULT AS IDENTITY PRIMARY KEY,
customer_id INT REFERENCES
"Customer"(customer_id),
street VARCHAR(255),
city VARCHAR(255),
post_code INT);
```

| Product | |
|--|---------|
|   # product_id | int8 |
|  product_name | varchar |
|  description | varchar |
|  price | numeric |
|  stock | int4 |
|  seller_id | int8 |
|  category_id | int8 |







```
CREATE TABLE Product
( product_id INT GENERATED BY
DEFAULT AS IDENTITY PRIMARY KEY,
product_name  VARCHAR(255),
description   VARCHAR,
price         NUMERIC,
stock         INTEGER,
seller_id INT REFERENCES
"Seller"(seller_id),
category_id INT REFERENCES
category(category_id) );
```

| Product_Attribute | |
|--|---------|
|   # attribute_id | int8 |
|  name | varchar |
|  value | varchar |
|  product_id | int8 |










```
CREATE TABLE Product_Attribute
( attribute_id INT GENERATED BY
DEFAULT AS IDENTITY PRIMARY KEY,
name          VARCHAR(255),
value         VARCHAR(255),
product_id INT REFERENCES
"Product"(product_id) );
```

| Order | |
|--|---------|
|   # order_id | int8 |
|  customer_id | int8 |
|  order_date | date |
|  address_id | int8 |
|  order_status_id | int8 |
|  total_amount | numeric |






```
CREATE TABLE Order
(order_id INT GENERATED BY DEFAULT
AS IDENTITY PRIMARY KEY,
customer_id INT REFERENCES
"Customer"(customer_id),
order_date DATE DEFAULT CURRENT_DATE,
address_id INT REFERENCES address
(address_id),
order_status_id INT REFERENCES
order_status(order_status_id),
total_amount NUM);
```

| order_item | |
|---|---------|
|   # item_id | int8 |
|  order_id | int8 |
|  product_id | int8 |
|  quantity | int2 |
|  unit_price | numeric |

```
CREATE TABLE order_item
( item_id INT GENERATED BY
DEFAULT AS IDENTITY PRIMARY
KEY,
order_id INT REFERENCES
"Order"(order_id),
product_id INT REFERENCES
Product"(product_id),
quantity INT,
unit_price NUM);
```

| payment | |
|--|-------------|
|   payment_id | int4 |
|  order_id | int4 |
|  amount | numeric |
|  payment_date | timestamptz |
|   transaction_id | varchar |
|  payment_status | varchar |
|  payment_method | varchar |

```
CREATE TABLE payment
(payment_id INTEGER
GENERATED BY DEFAULT AS
IDENTITY PRIMARY
KEY, order_id INT REFERENCES
"Order"(order_id),
Amount NUM ,
payment_date DATE DEFAULT
CURRENT_DATE,
transaction_id VARCHAR(255),
payment_status VARCHAR(50)
, payment_method
VARCHAR(50) );
```

| order_status | |
|---|------------------------|
|   # | order_status_id int8 |
|  | created_at timestamptz |
|   | status_name varchar |

```
CREATE TABLE order_status
(order_status_id INT
GENERATED BY DEFAULT AS
IDENTITY PRIMARY KEY,
created_at DATE DEFAULT
CURRENT_DATE,
status_name VARCHAR(255));
```

ADDING DATA TO TABLES:

| | custo... | fname varchar | lname varchar | e_mail varchar |
|---|----------|---------------|---------------|--------------------------|
| 1 | | Tom | Cruse | TomCruse@gmail.com |
| 2 | | Bruce | Wayne | Batman@gmail.com |
| 3 | | Antoni | Hopkins | Hannibal@gmail.com |
| 4 | | Mozart | Amadeus | MozartWAmadeus@gmail.com |
| 5 | | Luke | Cage | Force@gmail.com |

```
INSERT INTO Customer (customer_id, fname, lname, e_mail) VALUES
```

```
(1, 'Tom', 'Cruse', 'TomCruse@gmail.com'),  
(2, 'Bruce', 'Wayne', 'Batman@gmail.com'),  
(3, 'Antoni', 'Hopkins', 'Hannibal@gmail.com'),  
(4, 'Mozart', 'Amadeus', 'MozartWAmadeus@gmail.com'),  
(5, 'Luke', 'Cage', 'Force@gmail.com');
```

| | sell... | company_name varchar | e_mail varchar | phone varchar | address varchar |
|---|---------|----------------------|----------------|---------------|-----------------|
| 1 | | ABB | ABB@gmail.com | 5338647722 | Mersin/TURKEY |
| 2 | | SK | SK@gmail.com | 5337452112 | Manisa/TURKEY |
| 3 | | BS | BS@gmail.com | 5334789654 | Istanbul/TURKEY |
| 4 | | UG | UG@gmail.com | 5332245687 | Antalya/TURKEY |

```
INSERT INTO Seller (seller_id, company_name, e_mail, phone, address) VALUES
```

```
(1, 'ABB', 'ABB@gmail.com', '5338647722', 'Mersin/TURKEY'),  
(2, 'SK', 'SK@gmail.com', '5337452112', 'Manisa/TURKEY'),  
(3, 'BS', 'BS@gmail.com', '5334789654', 'Istanbul/TURKEY'),  
(4, 'UG', 'UG@gmail.com', '5332245687', 'Antalya/TURKEY');
```

| | catego... i... ▾ | name varchar ▾ |
|--|-------------------------|-----------------------|
| | 1 | Electronics |
| | 2 | Books |
| | 3 | Clothing |
| | 4 | Home Appliances |

```
INSERT INTO category (category_id, name)
VALUES
(1, 'Electronics'),
(2, 'Books'),
(3, 'Clothing'),
(4, 'Home Appliances');
```

| | prod... i... ▾ | product_name varchar ▾ | price numeric ▾ | stock int4 ▾ | sell... i... ▾ | catego... i... ▾ | description varchar ▾ |
|--|-----------------------|-------------------------------|------------------------|---------------------|-----------------------|-------------------------|--------------------------------------|
| | 1 | Smartphone X12 | 899.99 | 50 | 1 → | 1 → | High-end smartphone with OLED displa |
| | 2 | Wireless Headphones | 199.50 | 120 | 1 → | 1 → | Noise cancelling over-ear headphones |
| | 3 | Mystery Novel | 14.99 | 200 | 2 → | 2 → | Top-selling mystery thriller book |
| | 4 | Cotton T-Shirt | 9.99 | 500 | 3 → | 3 → | 100% cotton unisex t-shirt |
| | 5 | Microwave Oven | 129.99 | 30 | 4 → | 4 → | Digital microwave oven 900W |


```
INSERT INTO Product (product_id, product_name, description, price, stock, seller_id,
category_id) VALUES
(1, 'Smartphone X12', 'High-end smartphone with OLED display', 899.99, 50, 1, 1),
(2, 'Wireless Headphones', 'Noise cancelling over-ear headphones', 199.50, 120, 1, 1),
(3, 'Mystery Novel', 'Top-selling mystery thriller book', 14.99, 200, 2, 2),
(4, 'Cotton T-Shirt', '100% cotton unisex t-shirt', 9.99, 500, 3, 3),
(5, 'Microwave Oven', 'Digital microwave oven 900W', 129.99, 30, 4, 4);
```


| attribut... i... ▼ | name varchar ▼ | value varchar ▼ | prod... i... ▼ |
|--------------------|----------------|-----------------|----------------|
| 1 | Color | Black | 1 → |
| 2 | Storage | 128GB | 1 → |
| 3 | Battery | 4000mAh | 1 → |
| 4 | Color | White | 2 → |
| 5 | Weight | 250g | 2 → |
| 6 | Pages | 420 | 3 → |
| 7 | Size | L | 4 → |
| 8 | Material | Cotton | 4 → |
| 9 | Power | 900W | 5 → |















INSERT INTO "Product_Attribute" (attribute_id, name, value, product_id) VALUES
 (1, 'Color', 'Black', 1), (2, 'Storage', '128GB', 1),
 (3, 'Battery', '4000mAh', 1), (4, 'Color', 'White', 2),
 (5, 'Weight', '250g', 2), (6, 'Pages', '420', 3),
 (7, 'Size', 'L', 4), (8, 'Material', 'Cotton', 4),
 (9, 'Power', '900W', 5);

| addr... i... ▼ | custo... i... ▼ | street varchar ▼ | city varchar ▼ | post_c... i... |
|----------------|-----------------|------------------|----------------|----------------|
| 1 | 1 → | Main Street 12 | Mersin | 33000 |
| 2 | 2 → | Wayne Manor 1 | Gotham | 10001 |
| 3 | 3 → | Elm Road 45 | London | 10000 |
| 4 | 4 → | Amadeus Str. 9 | Vienna | 1010 |
| 5 | 5 → | Cage District 7 | New York | 90001 |

INSERT INTO address (address_id, customer_id, street, city, post_code) VALUES (1, 1, 'Main Street 12', 'Mersin', 33000), (2, 2, 'Wayne Manor 1', 'Gotham', 10001), (3, 3, 'Elm Road 45', 'London', 10000), (4, 4, 'Amadeus Str. 9', 'Vienna', 1010), (5, 5, 'Cage District 7', 'New York', 90001);

|  order_status... i... ▾ | created_at timestampz ▾ | status_name varchar |
|--|-------------------------------|---------------------|
| 1 | 2025-12-19 12:05:08.231007+00 | Pending |
| 2 | 2025-12-19 12:05:08.231007+00 | Processing |
| 3 | 2025-12-19 12:05:08.231007+00 | Shipped |
| 4 | 2025-12-19 12:05:08.231007+00 | Delivered |
| 5 | 2025-12-19 12:05:08.231007+00 | Cancelled |

INSERT INTO order_status (order_status_id, created_at, status_name) VALUES (1, NOW(), 'Pending'), (2, NOW(), 'Processing'), (3, NOW(), 'Shipped'), (4, NOW(), 'Delivered'), (5, NOW(), 'Cancelled');

|  ord... i... ▾ |  custo... i... ▾ | order_date date ▾ |  addr... i... ▾ |  order_status... i... ▾ | total_amount numeric ▾ |
|--|---|-------------------|---|--|------------------------|
| 1 | 1 → | 2025-12-01 | 1  | 1  | 1099.49 |
| 2 | 2 → | 2025-12-03 | 2  | 2  | 14.99 |
| 3 | 3 → | 2025-12-05 | 3  | 3  | 219.49 |
| 4 | 4 → | 2025-12-07 | 4  | 4  | 9.99 |
| 5 | 5 → | 2025-12-10 | 5  | 1  | 129.99 |

INSERT INTO "Order" (order_id, customer_id, order_date, address_id, order_status_id, total_amount) VALUES (1, 1, '2025-12-01', 1, 1, 1099.49), (2, 2, '2025-12-03', 2, 2, 14.99), (3, 3, '2025-12-05', 3, 3, 219.49), (4, 4, '2025-12-07', 4, 4, 9.99), (5, 5, '2025-12-10', 5, 1, 129.99);

| ite... | ord... | prod... | quantity | unit_price |
|--------|--------|---------|----------|------------|
| 1 | 1 | 1 | 1 | 899.99 |
| 2 | 1 | 2 | 1 | 199.50 |
| 3 | 2 | 3 | 1 | 14.99 |
| 4 | 3 | 2 | 1 | 199.50 |
| 5 | 3 | 1 | 1 | 899.99 |
| 6 | 4 | 4 | 1 | 9.99 |
| 7 | 5 | 5 | 1 | 129.99 |

INSERT INTO order_item
(item_id, order_id, product_id, quantity, unit_price)
VALUES
(1, 1, 1, 1, 899.99), (2, 1, 2, 1, 199.50), (3, 2, 3, 1, 14.99),
(4, 3, 2, 1, 199.50), (5, 3, 1, 1, 899.99), (6, 4, 4, 1, 9.99),
(7, 5, 5, 1, 129.99);

| paym... | amo... | payment_date | transaction_id | payment_status | payment_method |
|---------|---------|------------------------|----------------|----------------|----------------|
| 1 | 1099.49 | 2025-12-01 10:45:00+00 | TRN001 | Completed | Credit Card |
| 2 | 14.99 | 2025-12-03 15:22:00+00 | TRN002 | Completed | PayPal |
| 3 | 219.49 | 2025-12-05 18:41:00+00 | TRN003 | Completed | Credit Card |
| 4 | 9.99 | 2025-12-07 20:00:00+00 | TRN004 | Completed | Debit Card |
| 5 | 129.99 | 2025-12-10 13:05:00+00 | TRN005 | Pending | Credit Card |

INSERT INTO payment (payment_id, order_id, amount, payment_date, transaction_id,
payment_status, payment_method) VALUES
(1, 1, 1099.49, '2025-12-01 10:45:00', 'TRN001', 'Completed', 'Credit Card'), (2, 2, 14.99,
'2025-12-03 15:22:00', 'TRN002', 'Completed', 'PayPal'), (3, 3, 219.49, '2025-12-05 18:41:00',
'TRN003', 'Completed', 'Credit Card'), (4, 4, 9.99, '2025-12-07 20:00:00', 'TRN004',
'Completed', 'Debit Card'), (5, 5, 129.99, '2025-12-10 13:05:00', 'TRN005', 'Pending', 'Credit
Card');

```
UPDATE Customer
SET e_mail = 'TomMissionImpossible@gmail.com'
WHERE customer_id = 1;
```

| Table: CUSTOMER | | | | |
|-----------------|-------------|------------|-----------|--------------------------------|
| | customer_id | first_name | last_name | e_mail |
| BEFORE | 1 | Tom | Cruise | tom@hollywood.com |
| AFTER | 1 | Tom | Cruise | TomMissionImpossible@gmail.com |

```
UPDATE Product SET stock = stock + 131
WHERE product_id = 2;
```

| Table: PRODUCT | | | | |
|----------------|------------|--------------|---------|-------|
| | product_id | product_name | price | stock |
| BEFORE | 2 | Smart Watch | 1500.00 | 20 |
| AFTER | 2 | Smart Watch | 1500.00 | 151 |

UPDATE:Modifies data inside a specific column/cell.

- UPDATE category
SET name = 'Electronic Devices'
WHERE category_id = 1;
- UPDATE Product
SET price = 849.99,
stock = 45
WHERE product_id = 1;
- UPDATE "Order"
SET order_status_id =2
WHERE order_id = 1;

DELETING SPECIFIC DATA/ROW/COLUMN FROM A TABLE :

- DELETE FROM seller WHERE seller_id = 3;

| sell... | company_name | e_mail | phone | address |
|---------|--------------|---------------|------------|-----------------|
| 1 | ABB | ABB@gmail.com | 5338647722 | Mersin/TURKEY |
| 2 | SK | SK@gmail.com | 5337452112 | Manisa/TURKEY |
| 3 | BS | BS@gmail.com | 5334789654 | Istanbul/TURKEY |
| 4 | UG | UG@gmail.com | 5332245687 | Antalya/TURKEY |

- DELETE FROM order_status
WHERE status_name IN ('Pending', 'Delivered');

- With this code structure, the **third line** was **deleted**.

| order_status... | created_at | status_name |
|-----------------|-------------------------------|-------------|
| 1 | 2025-12-19 12:05:08.231007+00 | Pending |
| 2 | 2025-12-19 12:05:08.231007+00 | Processing |
| 3 | 2025-12-19 12:05:08.231007+00 | Shipped |
| 4 | 2025-12-19 12:05:08.231007+00 | Delivered |
| 5 | 2025-12-19 12:05:08.231007+00 | Cancelled |

-With this code, status_names containing "**Pending**" and "**Delivered**" were **deleted**.

QUERIES:

```
SELECT product_name, stock
FROM Product
WHERE stock > 100;
```

| product_name | stock |
|---------------------|-------|
| Wireless Headphones | 251 |
| Mystery Novel | 200 |
| Cotton T-Shirt | 500 |

```
SELECT p.product_name, c.name AS
category
FROM Product p
JOIN category c ON p.category_id =
c.category_id;
```

| product_name | category |
|---------------------|-----------------|
| Smartphone X12 | Electronics |
| Mystery Novel | Books |
| Cotton T-Shirt | Clothing |
| Microwave Oven | Home Appliances |
| Wireless Headphones | Electronics |

```
SELECT o.order_id, c.fname, c.lname,  
o.total_amount  
FROM "Order" o JOIN Customer c ON  
o.customer_id = c.customer_id;
```

| order_id | fname | lname | total_amount |
|----------|--------|---------|--------------|
| 1 | Tom | Cruse | 1099.49 |
| 2 | Bruce | Wayne | 14.99 |
| 3 | Antoni | Hopkins | 219.49 |
| 4 | Mozart | Amadeus | 9.99 |
| 5 | Luke | Cage | 129.99 |

```
SELECT payment_id, order_id,  
amount, payment_status  
FROM payment  
WHERE payment_status = 'Pending';
```

| payment_id | order_id | amount | payment_status |
|------------|----------|--------|----------------|
| 5 | 5 | 129.99 | Pending |

```
SELECT oi.order_id, p.product_name, oi.quantity  
FROM order_item oi  
JOIN Product p ON oi.product_id = p.product_id;
```

| order_id | product_name | quantity |
|----------|---------------------|----------|
| 1 | Smartphone X12 | 1 |
| 1 | Wireless Headphones | 1 |
| 2 | Mystery Novel | 1 |
| 3 | Wireless Headphones | 1 |
| 3 | Smartphone X12 | 1 |
| 4 | Cotton T-Shirt | 1 |
| 5 | Microwave Oven | 1 |

```
SELECT product_name, price  
FROM Product  
ORDER BY price DESC  
LIMIT 1;
```

| product_name | price |
|----------------|--------|
| Smartphone X12 | 899.99 |

| order_id | fname | lname | payment_method | amount |
|----------|--------|---------|----------------|---------|
| 1 | Tom | Cruse | Credit Card | 1099.49 |
| 2 | Bruce | Wayne | PayPal | 14.99 |
| 3 | Antoni | Hopkins | Credit Card | 219.49 |
| 4 | Mozart | Amadeus | Debit Card | 9.99 |
| 5 | Luke | Cage | Credit Card | 129.99 |

```
SELECT o.order_id, c.fname, c.lname,
p.payment_method, p.amount
FROM "Order" o
JOIN Customer c ON o.customer_id = c.customer_id
JOIN payment p ON o.order_id = p.order_id;
```

| product_name | stock |
|----------------|-------|
| Smartphone X12 | 50 |
| Microwave Oven | 30 |

```
SELECT product_name, stock
FROM Product
WHERE stock < 100;
```

| product_name | price |
|----------------|--------|
| Smartphone X12 | 899.99 |

```
SELECT product_name, price
FROM Product
ORDER BY price DESC
LIMIT 1;
```

| product_name | company_name | category |
|---------------------|--------------|-----------------|
| Smartphone X12 | ABB | Electronics |
| Wireless Headphones | ABB | Electronics |
| Mystery Novel | SK | Books |
| Cotton T-Shirt | BS | Clothing |
| Microwave Oven | UG | Home Appliances |

```
SELECT p.product_name, s.company_name, c.name
AS category
FROM Product p
JOIN Seller s ON p.seller_id = s.seller_id
JOIN category c ON p.category_id = c.category_id;
```


| order_id | payment_method | amount |
|----------|----------------|---------|
| 1 | Credit Card | 1099.49 |
| 2 | PayPal | 14.99 |
| 3 | Credit Card | 219.49 |
| 4 | Debit Card | 9.99 |
| 5 | Credit Card | 129.99 |

```
SELECT o.order_id, p.payment_method, p.amount
FROM "Order" o
JOIN payment p ON o.order_id = p.order_id;
```

| fname | lname | total_orders |
|-------|-------|--------------|
| Tom | Cruse | 1 |

```
SELECT c.fname, c.lname, COUNT(o.order_id) AS
total_orders
FROM Customer c
JOIN "Order" o ON c.customer_id = o.customer_id
GROUP BY c.fname, c.lname
ORDER BY total_orders DESC
LIMIT 1;
```

| product_name | price | company_name |
|----------------|--------|--------------|
| Smartphone X12 | 899.99 | ABB |

```
SELECT p.product_name, p.price, s.company_name
FROM Product p
JOIN Seller s ON p.seller_id = s.seller_id
ORDER BY p.price DESC
LIMIT 1;
```











| category | total_stock |
|-----------------|-------------|
| Electronics | 301 |
| Books | 200 |
| Clothing | 500 |
| Home Appliances | 30 |

```
SELECT c.name AS category, SUM(p.stock) AS total_stock
FROM category c
JOIN Product p ON c.category_id = p.category_id
GROUP BY c.name;
```


| max_price | min_price |
|-----------|-----------|
| 899.99 | 9.99 |

```
SELECT MAX(price) AS max_price, MIN(price) AS
min_price
FROM Product;
```


TABLES:

| |
|---|
|  Customer |
|  Order |
|  Product |
|  Product_Attrib... |
|  Seller |
|  address |
|  category |
|  order_item |
|  order_status |
|  payment |




















CATEGORY

|  category... i... ▼ | name varchar |
|---|---------------------|
| 1 | Electronics |
| 2 | Books |
| 3 | Clothing |
| 4 | Home Appliances |

CUSTOMER

|  custo... i... ▼ | fname varchar ▼ | lname varchar ▼ | e_mail varchar ▼ |
|--|------------------------|------------------------|--------------------------------|
| 1 | Tom | Cruse | TomMissionImpossible@gmail.com |
| 2 | Bruce | Wayne | Batman@gmail.com |
| 3 | Antoni | Hopkins | Hannibal@gmail.com |
| 4 | Mozart | Amadeus | MozartWAmadeus@gmail.com |
| 5 | Luke | Cage | Force@gmail.com |

ORDER

|  ord... i... ▼ |  custo... i... ▼ | order_date date ▼ |  addr... i... ▼ |  order_status... i... ▼ | total_amount numeric |
|--|---|--------------------------|---|---|-----------------------------|
| 1 | 1  | 2025-12-01 | 1  | 1  | 1099.49 |
| 2 | 2  | 2025-12-03 | 2  | 2  | 14.99 |
| 3 | 3  | 2025-12-05 | 3  | 3  | 219.49 |
| 4 | 4  | 2025-12-07 | 4  | 4  | 9.99 |
| 5 | 5  | 2025-12-10 | 5  | 1  | 129.99 |


PRODUCT

| prod... i... ▾ | product_name varchar ▾ | price numeric ▾ | stock int4 ▾ | sell... i... ▾ | catego... i... ▾ | description varchar ▾ |
|----------------|------------------------|-----------------|--------------|----------------|------------------|---------------------------------------|
| 1 | Smartphone X12 | 899.99 | 50 | 1 → | 1 → | High-end smartphone with OLED display |
| 2 | Wireless Headphones | 199.50 | 382 | 1 → | 1 → | Noise cancelling over-ear headphones |
| 3 | Mystery Novel | 14.99 | 200 | 2 → | 2 → | Top-selling mystery thriller book |
| 4 | Cotton T-Shirt | 9.99 | 500 | 3 → | 3 → | 100% cotton unisex t-shirt |
| 5 | Microwave Oven | 129.99 | 30 | 4 → | 4 → | Digital microwave oven 900W |

PRODUCT_ATTRIBUTES

| attribut... i... ▾ | name varchar ▾ | value varchar ▾ | prod... i... ▾ | + |
|--------------------|----------------|-----------------|----------------|---|
| 1 | Color | Black | 1 → | |
| 2 | Storage | 128GB | 1 → | |
| 3 | Battery | 4000mAh | 1 → | |
| 4 | Color | White | 2 → | |
| 5 | Weight | 250g | 2 → | |
| 6 | Pages | 420 | 3 → | |
| 7 | Size | L | 4 → | |
| 8 | Material | Cotton | 4 → | |
| 9 | Power | 900W | 5 → | |




SELLER

|  sell... i... ▾ | company_name varchar ▾ | e_mail varchar ▾ | phone varchar ▾ | address varchar |
|---|------------------------|------------------|-----------------|-----------------|
| 1 | ABB | ABB@gmail.com | 5338647722 | Mersin/TURKEY |
| 2 | SK | SK@gmail.com | 5337452112 | Manisa/TURKEY |
| 3 | BS | BS@gmail.com | 5334789654 | Istanbul/TURKEY |
| 4 | UG | UG@gmail.com | 5332245687 | Antalya/TURKEY |


ADDRESS

|  addr... i... ▾ |  custo... i... ▾ | street varchar ▾ | city varchar ▾ | post_c... i... ▾ |
|---|---|------------------|----------------|------------------|
| 1 | 1 → | Main Street 12 | Mersin | 33000 |
| 2 | 2 → | Wayne Manor 1 | Gotham | 10001 |
| 3 | 3 → | Elm Road 45 | London | 10000 |
| 4 | 4 → | Amadeus Str. 9 | Vienna | 1010 |
| 5 | 5 → | Cage District 7 | New York | 90001 |

ORDER_ITEM

|  ite... i... ▾ |  ord... i... ▾ |  prod... i... ▾ | quantity int2 ▾ | unit_price numeric |
|---|--|---|------------------------|---------------------------|
| 1 | 1 → | 1 → | 1 | 899.99 |
| 2 | 1 → | 2 → | 1 | 199.50 |
| 3 | 2 → | 3 → | 1 | 14.99 |
| 4 | 3 → | 2 → | 1 | 199.50 |
| 5 | 3 → | 1 → | 1 | 899.99 |
| 6 | 4 → | 4 → | 1 | 9.99 |
| 7 | 5 → | 5 → | 1 | 129.99 |

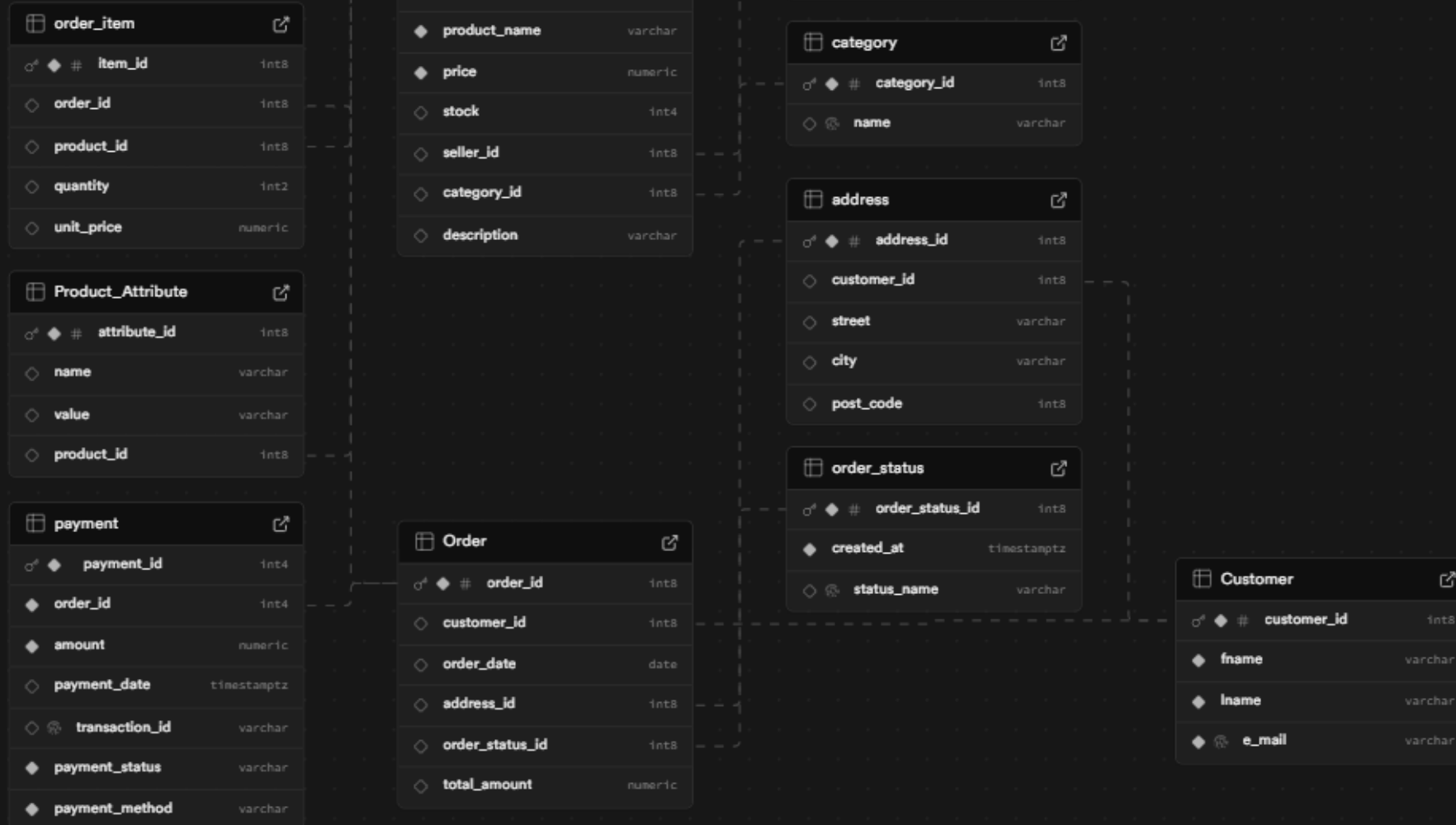
ORDER_STATUS

|  order_status... i... ▾ | created_at timestamptz ▾ | status_name varchar |
|--|---------------------------------|----------------------------|
| 1 | 2025-12-19 12:05:08.231007+00 | Pending |
| 2 | 2025-12-19 12:05:08.231007+00 | Processing |
| 3 | 2025-12-19 12:05:08.231007+00 | Shipped |
| 4 | 2025-12-19 12:05:08.231007+00 | Delivered |
| 5 | 2025-12-19 12:05:08.231007+00 | Cancelled |

PAYMENT

|  paym... i... ▾ | amo... num... ▾ | payment_date timestampz ▾ | transaction_id varchar ▾ | payment_status varchar ▾ | payment_method varchar |
|--|------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------------------|
| 1 | 1099.49 | 2025-12-01 10:45:00+00 | TRN001 | Completed | Credit Card |
| 2 | 14.99 | 2025-12-03 15:22:00+00 | TRN002 | Completed | PayPal |
| 3 | 219.49 | 2025-12-05 18:41:00+00 | TRN003 | Completed | Credit Card |
| 4 | 9.99 | 2025-12-07 20:00:00+00 | TRN004 | Completed | Debit Card |
| 5 | 129.99 | 2025-12-10 13:05:00+00 | TRN005 | Pending | Credit Card |

ER DIAGRAM OF SALES DBMS:



ERD DIAGRAM:

